

19990906.qrp v01\_n571.qrl.990906

Date: Mon, 6 Sep 1999 19:03:12 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1571

QRP-L Digest 1571

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- 2) [49462] A small Milestone passed....  
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- 3) [49463] Re: origin of "72"  
by k5zty@juno.com
- 4) [49464] OT: Kudos to Roy W7EL  
by "KEVIN F GLYNN" <KFGLYNN@prodigy.net>
- 5) [49465] Re: origin of "72"  
by "Steve Sorrell" <ap036@detroit.freenet.org>
- 6) [49466] Re: First Paddles(!)  
by Bob Nielsen <nielsen@primenet.com>
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- 8) [49468] Re: Desert Storm Surplus NVIS Antenna?  
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- 9) [49469] qrp humor.....  
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- 10) [49470] Q: Solar Panels  
by JPD <jdanter@mail.i-america.net>
- 11) [49471] Shuksan Arm QRP Expedition Report  
by "Bruce Prior" <n7rr@hotmail.com>
- 12) [49472] Hiram Percy Maxim Birthday Celebration  
by JFStrain@aol.com
- 13) [49473] Re: BIG capacitors  
by "Ed" <ac5dc@ipa.net>
- 14) [49474] EDZ / LAZY-H -A WASH! (literally)  
by S LYON <sslyon@worldnet.att.net>
- 15) [49475] Re: origin of "72"  
by "The One and Only!" <mitch96@pobox.com>
- 16) [49476] Re: RS 22-503 power supply--Yikes!  
by Paul Erickson <paule@sfu.ca>
- 17) [49477] Re: First Paddles(!)  
by "Nick Kennedy" <nkennedy@cswnet.com>
- 18) [49478] AOL fails AGAIN !  
by REDSBOY@aol.com
- 19) [49479] Re: AOL fails AGAIN !

- by Terry Bendell <terryb@bmts.com>
- 20) [49480] Re: [AOL fails AGAIN !](OT)  
by Roy Lincoln <wa4dou@usa.net>
- 21) [49481] Paddle contacts  
by "Robert Armstrong" <barmstrong@sisna.com>
- 22) [49482] Re: AOL fails AGAIN !..... now #2.  
by GElam30092@aol.com
- 23) [49483] re: spider kits  
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
- 24) [49484] QRP Rocket Beacons  
by "Brian Olson" <brolson@ties.k12.mn.us>
- 25) [49485] PIC -Peripheral Interface Controllers  
by charles k brown <n4so@juno.com>
- 26) [49486] DSW20: QRP or QR0, your choice  
by matti.niskanen@yle.fi
- 27) [49487] Kits: Apples and oranges? Figs and futons?  
by Wayne Burdick <n6kr@elecraft.com>
- 28) [49488] Pictures of N2CQR HB QRP  
by Bill Meara <n2cqr@erols.com>
- 29) [49489] Paddles  
by "Frank G3YCC" <frank@g3ycc.karoo.co.uk>
- 30) [49490] A small Milestone passed....  
by w2xn@juno.com
- 31) [49491] 2SC4137 Pin out?  
by "Charlie Fitts" <cfitts@neca.com>
- 32) [49492] Re: QRP Rocket Beacons  
by S LYON <sslyon@worldnet.att.net>
- 33) [49493] attic ant. installation  
by JClinton46@aol.com
- 34) [49494] Paddles - TFR  
by Bob Edwards <w4ed@gis.net>
- 35) [49495] Re: Pictures of N2CQR HB QRP  
by Bob Edwards <w4ed@gis.net>
- 36) [49496] 40m Radio - Which one?  
by Mark Sailer <msailer@willys.buoy.com>
- 37) [49497] OT: Fixing TV Remotes  
by "Robert W. Shaw" <lycott@fox.nstn.ca>
- 38) [49498] FS: LDG AT-11 automatic antenna tuner  
by Dave Redfearn <n4elm@texoma.net>
- 39) [49499] Tks dr Donny fer ur reply as well...  
by "Sly (9M8SL)" <cqsly@tm.net.my>
- 40) [49500] Re: Fixing TV Remotes  
by "Ron Giuntini" <rong@slip.net>
- 41) [49501] RE: First paddles  
by Mike <mmorrow@companet.net>
- 42) [49502] RE: First paddles  
by Monte Stark <ku7y@dri.edu>
- 43) [49503] Re: Paddles

by REDSBOY@aol.com

44) [49504] Re: [azqrp] first contact!  
by Brian Kassel <bkassel@dancris.com>

45) [49505] Cleaning Up Shack  
by ADRAMIS@aol.com

46) [49506] Re: 40m Radio - Which one?  
by Phil Wheeler <w7ox@mindspring.com>

47) [49507] Re: Kits: Apples and oranges? Figs and futons?  
by Phil Wheeler <w7ox@mindspring.com>

48) [49508] Re: PIC -Peripheral Interface Controllers  
by Phil Wheeler <w7ox@mindspring.com>

49) [49509] 2N2/40 Mods, Mixer post amp and variable RF gain  
by "Steven Weber" <kd1jv@moose.ncia.net>

50) [49510] Re: 40m Radio - Which one?  
by "Roy" <ab7ce@email.msn.com>

51) [49511] Re: qrp humor.....  
by Phil Wheeler <w7ox@mindspring.com>

52) [49512] Re: QRN & Band Condx  
by "Randy Jouett" <rules@bellsouth.net>

53) [49513] Re: 40m Radio - Which one?  
by Phil Wheeler <w7ox@mindspring.com>

54) [49514] Re: Shuksan Arm QRP Expedition Report  
by Phil Wheeler <w7ox@mindspring.com>

55) [49515] MI QRP Labor Day test is today  
by "Chuck Adams, K7Q0" <k7qo@hotmail.com>

56) [49516] Re: Fixing TV Remotes  
by "Nick Kennedy" <nkennedy@cswnet.com>

57) [49517] Re: 40m Radio - Which one?  
by "Roy" <ab7ce@email.msn.com>

58) [49518] Hex Beam antenna  
by "The One and Only!" <mitch96@pobox.com>

59) [49519] Organizing components  
by "Kory Hamzeh" <kory@avatar.com>

60) [49520] Re: Hex Beam antenna  
by Phil Wheeler <w7ox@mindspring.com>

61) [49521] Re: 40m Radio - Which one?  
by Phil Wheeler <w7ox@mindspring.com>

62) [49522] Re: 40m Radio - Which one?  
by Phil Wheeler <w7ox@mindspring.com>

63) [49523] XTAL Checker Schematic Now on Web  
by Daniel Bartlett <ausham@rocknet.net.au>

64) [49524] Antenna Q: Ground mounting  
by Joel Malman <malman@world.std.com>

65) [49525] RE: Organizing components  
by "Ed Tanton" <n4xy@att.net>

66) [49526] 20M EDZ / LAZY-H up and running  
by S LYON <sslyon@worldnet.att.net>

67) [49527] Re: 40m Radio - Which one?

by "Dave Fifield" <fifield@pacbell.net>  
68) [49528] Re: [Antenna Q: Ground mounting]  
by Roy Lincoln <wa4dou@usa.net>  
69) [49529] ZM-2 Question  
by "Kory Hamzeh" <kory@avatar.com>  
70) [49530] I have a ZM-1 kit to give away.  
by "Kory Hamzeh" <kory@avatar.com>  
71) [49531] Wanted: Kent paddles  
by mwattcpa@earthlink.net (Marty Watt)  
72) [49532] Re: Antenna Q: Ground mounting  
by "George Heron" <n2apb@erols.com>

-----  
Date: Sun, 5 Sep 1999 19:03:09 -0400  
From: "Ken Simpson" <W8EK@fdt.net>  
To: "QRP List" <qrp-l@lehigh.edu>  
Subject: [49461] Electronic Text Books  
Message-ID: <04fd01bef7f2\$d3710ba0\$cf14fea9@kensimps>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

At various times, some people on this list have asked about some good electronic text books. I have found some, most of which I have used in teaching electronics at the Associate Degree (technician) level, that I no longer need.

The following are For Sale:

Basic Electronics by Grob - 8th edition - 1997 - \$ 30

Electronic Principles by Malvino - 6th edition - 1999 - \$ 30

Electric Circuit Fundamentals and Electronics Fundamentals  
3rd edition by Floyd - 1995 - \$ 30

Electronic Devices and Circuits by Hassul and Zimmerman -  
Conventional Flow version - includes student workbook  
I think this is a 1998 copyright, but it is still in shrink-wrap,  
and I do not want to unwrap it to find out for sure. \$ 30

Understanding Data Communications by Friend  
The title says it all! \$ 15

Understanding Communications Systems by Cannon

This one covers all sorts of communication systems -- not just the data communications like the one above. \$ 15

Modern Electronic Communications by Miller  
Communications techniques, modulation, TV, antennas, wave propagation, waveguides, fiber optics, noise,  
2nd edition - 1983 - \$ 15  
3rd edition - 1988 - \$ 18  
4th edition - 1993 - \$25

Intro to Digital Data Communications by Stein  
Data formats, UARTs, RS-232, codes, telephone systems, DTE/DCE interfaces, error detection, protocols, multiplexing, packet switching, LANs \$ 22

Digital Electronics by Uffenbeck  
Covers from number systems to shift registers to Programmable devices to interfacing \$ 28

Electricity - Principles and Applications by Fowler  
Part of McGraw Hill's "Basic Skills in Electricity and Electronics" group of texts. Mainly theory, in easy to understand explanations. \$ 20

Prices do not include shipping from Florida. All books are new or almost new. By the way, most of these are large, heavy books, weighing about 6 pounds each, but can be shipped "Book Rate" fairly inexpensively.

E-mail to W8EK@fdt.net

Thanks.

73,

Ken, W8EK

Ken Simpson  
E-Mail to W8EK@fdt.net or W8EK@juno.com  
Voice Phone (352) 732-8400

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Date: Sun, 05 Sep 1999 18:33:05 -0500  
From: Brian Murrey <brian@iquest.net>  
To: QRP-L <grp-l@lehigh.edu>  
Subject: [49462] A small Milestone passed....  
Message-ID: <37D2FDB1.F38E3D2C@iquest.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

First of all....MAC!!! YOU DID IT!!! CONGRATS MY FRIEND!!!

Now don't be snootie to me or I'll pretend I don't hear you on 40m....oh yeah, Extra's with NC20's don't do 40m...well one day, I'll be up there in the lofty heights with you, and I'll probably have you to thank!

Well done sir.

Now, what about me? Well, one year ago today I put my little Norcal 40A on the air at a screaming 5 WPM, all via the non-patented KF4KSM attic dipole...pumping a little under 2 watts out to the universe and beyond. I set three goals for myself and I wish I had made all three but hey, two out of three ain't bad.

I upgraded to General and my code speed is about 16-17 WPM.  
I earned, as of last night with K3NY, the FISTS Century Club Award

I missed WAS in a year, and I still need AK, ME, MT, NE, NH, NM, RI, UT, VT, and WY.

The best part of the last year for me was being a Novice/Tech Plus Fox. I think it sharpened my skills more than anything else I've done. I also participated in the Novice Roundup, the Colorado QRP Club contests, and a few other sprints that went a long way in bringing my speed up. Heck, I'm even a member of the Hawaii QRP club thanks to Dean and his most awesome ears.

So for the next year, I want to finish up WAS on 40M so I can justify buying and building a 20M rig, I want to upgrade to Extra before it gets phased out, and I want to do well in the fox hunts this year. I'm on the Underdogs! GO DAWGS!

QRP-L and the folks here have been an immense source of data, instruction, entertainment, and knowledge. Thanks to you all, you make Ham Radio fun for me.

72

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KB9BVN: Norcal 40A - 1.8W - Attic Dipole  
FISTS: 5695 NORCAL: 2792 QRP-L: 1540 ARRL  
QTH: Central Indiana, GRID: EM69WN

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Date: Sun, 5 Sep 1999 18:14:20 -0500  
From: k5zty@juno.com  
To: mitch96@pobox.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [49463] Re: origin of "72"  
Message-ID: <19990905.183502.6910.4.k5zty@juno.com>

It's the QRPers secret handshake. The origin is secret too. If we tell you we will have to kill you. Tell the 'old gent' that it's secret club stuff and to flake off.

Bill, K5ZTY

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Date: Sun, 5 Sep 1999 19:43:58 -0400  
From: "KEVIN F GLYNN" <KFGLYNN@prodigy.net>  
To: <qrp-l@Lehigh.EDU>  
Subject: [49464] OT: Kudos to Roy W7EL  
Message-ID: <001301bef7f8\$86bdfa60\$4f589cd1@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi gang,

Just wanted to throw this out.

When going from my Windows 95 notebook to a new Windows 98 notebook I eventually got files onto a CD as backup. When I copied the EZNEC directories the application would not work properly. Roy got right back to me via e-mail with some suggestions and apologized for the problem and told me he'd do everything he could to resolve the problem. I haven't worked with EZNEC in months.

Ended up that the copied files were read-only. I toggled off the read-only attribute and EZNEC runs correctly. Perhaps the program needed to close the LAST.EZ file as well as config files.

Now maybe I can finally finish the antenna models I wanted to give George N2APB for the NJ-QRP Club web site.

Many in our radio community are as committed to service as Roy, and for that I'm grateful. This is a pretty good hobby.

72 Kevin N2TO  
Brookly, NYC  
kfglynn@prodigy.net

-----  
Date: Mon, 6 Sep 1999 00:12:43 +0100  
From: "Steve Sorrell" <ap036@detroit.freenet.org>  
To: <k5zty@juno.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49465] Re: origin of "72"  
Message-ID: <017001bef7f4\$29ec8580\$d742b3c7@sorrells>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Absolutely Bill, and for heavens sake, make sure not to show him the secret decoder ring or we're all doomed!  
de Steve, W8SFF

-----  
Date: Sun, 5 Sep 1999 17:26:34 -0700  
From: Bob Nielsen <nielsen@primenet.com>  
To: qrp-l@lehigh.edu  
Subject: [49466] Re: First Paddles(!)  
Message-ID: <19990905172634.A19514@bob.localnet>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I've been wondering what that stuff was for!

On Sun, Sep 05, 1999 at 12:18:24PM -0700, Gary L Surrency wrote:  
> A little pad of that stuff they sell at Wal-Mart, etc., to keep things  
> from sliding around in the bottoms of kitchen drawers will stop your



> paddles from creeping. It's a rubberized fabric kinda stuff. (technical  
> term). The ScQRPions passed this stuff out in the symposium solders at  
> the Ft. Tuthill hamfests the last couple of years. Should work great  
> under a lead-filled Altoids box.  
>  
> Say, have you got a "Warning: Contains Lead" hazardous substance warning  
> sticker on that puppy? ;-)  
>  
> 72,  
>  
> Gary Surrency AB7MY QRP-L #571 Chandler, AZ (near Phoenix)  
>  
> -----  
> Get the Internet just the way you want it.  
> Free software, free e-mail, and free Internet access for a month!  
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

--

Bob Nielsen                      Internet: [nielsen@primenet.com](mailto:nielsen@primenet.com)  
Tucson, AZ                      AMPRnet: [w6swe@w6swe.ampr.org](mailto:w6swe@w6swe.ampr.org)  
DM42nh                          <http://www.primenet.com/~nielsen>

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Date: Sun, 5 Sep 1999 17:29:36 -0700  
From: Bob Nielsen <[nielsen@primenet.com](mailto:nielsen@primenet.com)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [49467] Re: First Paddles(!)  
Message-ID: <19990905172935.B19514@bob.localnet>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

I remember seeing a Brown Brothers dual paddle/hand key about 20 years ago. Does anyone know if they are still available and where?

Bob, W6SWE

--

Bob Nielsen                      Internet: [nielsen@primenet.com](mailto:nielsen@primenet.com)  
Tucson, AZ                      AMPRnet: [w6swe@w6swe.ampr.org](mailto:w6swe@w6swe.ampr.org)  
DM42nh                          <http://www.primenet.com/~nielsen>

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Date: Sun, 5 Sep 1999 20:49:59 -0400  
From: [wb2vuo@juno.com](mailto:wb2vuo@juno.com)  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [49468] Re: Desert Storm Surplus NVIS Antenna?

Message-ID: <19990905.205119.-219541.0.wb2vuo@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

My scale was off on my first observation. The antenna requires a 72 ft x 72 ft area, the loops are 26 feet on a side (44 feet in the long axis) and 26 feet wide.

If I have the "k" factor right, the loops are effectively crossed dipoles that resonate at 5 MHz, but with a "k"-factor of 0.88, the feedpoint starts out at about 30 ohms at resonance. Seeing that the MARS users are reporting an SWR of less than 2:1 across the HF spectrum, the "fat" dipoles must limit drastic impedance and reactance excursions.

Anybody want to model this?

I barely have enough room in the back to try one out, just need the 600 feet of #14 to build it with. I'll see what I can do on payday.

72/73, Keith, WB2VUO, 100% QRP from the Depths of the Great Bergen Swamp  
My night light runs more power than my Rig!!!

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Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Sun, 5 Sep 1999 20:52:26 EDT  
From: GElam30092@aol.com  
To: qrp-l@lehigh.edu  
Subject: [49469] qrp humor.....  
Message-ID: <22656488.25046a4a@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

This came to me off-list and, having a strange sense of humor, I couldn't help but share it with the rest of the list.

His real name was removed to protect his identity. Imagine if this got to his employer! Or if his parents found out. Or his xly! The shame of it all....

{:-o)

Cheers,

Gerry

\*\*\*\*\*

Hello, my name is XXX..... and I'm a ..... qrp'er

I started off just doing a little qrp on weekends - you know, turning down the output on the big rig, just to, you know, experiment

pretty soon, I couldn't wait for the weekends and started doing qrp alone in the house, sneaking in a qso before the xyl got home, using headphones so no one would hear the cw

a buddy, at least that's what I thought he was, slipped me his 38 Special for a couple of weeks and I was.....HOOKED.....

then a dealer got to me and I began to do the hard stuff - kits and homebrew - now I've got a DSW-40 and a DSW-20. Its been a slippery slide ever since.....

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Date: Sun, 05 Sep 1999 20:57:47 -0700

From: JPD <jdanter@mail.i-america.net>

To: qrp-1@Lehigh.edu

Subject: [49470] Q: Solar Panels

Message-ID: <37D33BBB.1C3F@mail.i-america.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Saw a Solarex panel powering a MFJ QRP radio at the Shelby NC 'Fest.

The panel was 13"x13", 17v @ 0.300mA output.

Anyone have recommendations on other panel vendors?

Thanks,

Jamie D.

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Date: Sun, 05 Sep 1999 17:58:29 PDT

From: "Bruce Prior" <n7rr@hotmail.com>

To: jsm@integrate.bc.ca

Subject: [49471] Shuksan Arm QRP Expedition Report

Message-ID: <19990906005831.70057.qmail@hotmail.com>

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

QRPers and other interested folks --

First of all, I brought entirely too much radio gear for a mountaineering trip. On the not-very-accurate bathroom scales, it weighed between 12 and 13 pounds!

I left the car on Thursday, 1999-09-02 at a picnic area at 4435 feet near Austin Pass, in the Mt. Baker Ski Area in the Cascade Range of Washington State. The road from there to Artist Point was still closed, since much of last winter's world-record snow accumulation still remained. Here and there, the road can be seen emerging from the snow.

From previous trips there this summer, I knew it would be worthwhile to don my crampons right at the car, although I saw none of the day-trippers who also ventured from their cars following suit. Although the bright sunshine had softened the very top of the snow, just under the top layer, the snow was quite solid, so much so that I had no use for my ski pole baskets, which stayed inside my pack for the whole trip.

My ice axe stayed strapped to the pack until I reached a 4835-foot pass at the headwaters of the North Fork of Swift Creek and Razor Hone Creek. My 1:24 000 map didn't show a name for the pass, so I dubbed it Razor Hone Pass. Margaret remembers that one of the ski runs is called Razor Hone.

That's where the real climbing to Shuksan Arm began. My ski poles got mounted like phased verticals on my pack and I unsheathed my ice axe. The axe is a well-worn collector's item. Mountain Safety Research only made convertible ice axes for a very short time back in the sixties. It can be used as a "shorty" axe for extreme ice climbing, or a shaft extender can be attached for normal alpine climbing. I chose to leave the extender at home to save weight. That was a mistake. I would have been much more comfortable climbing with a heavy pack if I had brought a full-length ice axe.

The first pitch was fairly steep, about 40°, requiring some front-pointing with the crampons, but climbing was quite safe, since the slope leveled out nicely to the pass below. After that first pitch, I zigzagged generally east-southeast across the northwest face of the western summit of Shuksan Arm. The only tricky part was at about 5000 feet in an hourglass of snow between some cliffs above and rocks below, but the snow was quite stable. That's where I was really missing the ice axe shaft extender which lay in a closet at home.

Above the hourglass, the slope moderated enough to trade the ice-axe for ski poles again. Meanwhile, the mountain scenery continued to get more and more spectacular. The route was obvious in crystal-clear weather, but it was complicated enough that most mountaineers would have preferred to mark it with willow wands to find their way back should the weather

deteriorate. I had no willow wands along, so I substituted six GPS waypoints between Razor Hone Pass and the summit. After about 5 1/2 hours of climbing from the car, I reached the summit at 5520 feet.

The view of the northeast side of Mt. Baker was impressive enough, but seeing Mt. Shuksan at such close range defies description. I could hear, but never saw, several ice avalanches spilling off the upper glaciers on the western faces of its massif. Many calendar photos have been taken of Mt. Shuksan with its reflection in Picture Lake, about a kilometer north of where I left my car.

My summit campsite was clear of snow, with a few ancient weather-weary conifers begging to be used to hold up my antennas. As I rounded a corner in search of running water, I flushed a blue grouse, probably a female, but I didn't really get a good enough look to be sure. I found a trickle below a snow patch which filled my 2-litre cooking pot after a few peaceful minutes. It's an old camping habit of mine to look after my water supply even before such essential tasks as deploying antennas. I also decided to pitch my tent, so my antennas would be strategically located to feed right next to it. My tent is unique. It's a single-walled Gortex, with waterproof nylon on the bottom. It's really little more than a bivouac bag with carbon-fiber rods strung together in semicircles at the head and toe. It only requires three light ground stakes to keep it taut. Inside the tent, push-ups would be just manageable. Sit-ups: impossible.

I kept scratching my sprouting expedition beard over why my GPS coordinates disagreed with my 1:24 000 USGS topographical map for the western summit of Shuksan Arm by about 200 meters, much more than should be expected with US Government-imposed "selective availability" which fuzzies the accuracy available to civilians for security reasons, and other factors which further limit GPS accuracy. That was with three averaged measurements from a summit with a view to the sky which captured all available satellites. Then, Saturday morning, under an overcast sky, a light went on in my geographer brain: MAP DATUM. A map datum is a mathematical model of the earth upon which coordinate systems are based. My GPS had been set for World Geodetic System 1984. My topo map horizontal datum was 1927 North America. When I set my GPS to NA27 CONUS, the averaged coordinates were so close to the marked summit that I couldn't measure the error!

The only downside to my summit experience was evidence of detritus from predecessors of my species. I picked up two beer bottles, half a dozen crushed beer cans, miscellaneous bits of aluminum foil, plastic, weather-proof paper, an empty Marlboro pack, plus maybe 100 cigarette filters. (Those little filters will probably outlast this civilization. What will archeologists make of them? Somebody will probably earn a PhD for proving that 20th-21st Century humans burned a rubbery plant leaf and breathed in the smoke through a little wad of fiber. The aspiring scholar will doubtless conclude that breathing smoke was some sort of religious

ritual.) The total weight added to my return backpack couldn't have been two pounds, but the mess was still disgusting.

Unfortunately, my own record is not entirely clean. My typical method of raising antennas is to tie nylon cord with a grapevine noose around a convenient rock and sling it over a tree. The nylon cord, in turn, is tied to my dipole end with a hunter bend, one of my favorite knots, invented by a British surgeon a couple of decades ago. My second aim was perfect, but the rock got stuck irretrievably in a high tree notch. I couldn't climb the tree without a full array of climbing gear, so I had to cut off the purple cord and leave it there. It will be an excuse to return there someday with a grandchild who is game to do technical climbing on a hoary tree. (No, I'm not a grandparent yet!)

So, after the usual comic struggles, I deployed half-wave dipoles for 80 and 40 meters. I had arranged skeds for Thursday and Friday nights with my wife Margaret, KD7CEL, who was on a less challenging backpack trip to Excelsior Pass, 13 km northwest of my summit. Her companion was a long-time backpacking buddy, Anne Anthony, an Environmental Education professor at the University of British Columbia and a breast cancer survivor. I was using my brand-new Small Wonder Labs DSW-40 and Margaret was using her Wilderness Radio 40-m Novice SST, her first kit-building project. On Thursday, expecting a booming signal from her, I heard absolutely nothing after many calls. There was a lot of QRM on 7110 kHz, which I tried to skirt as best I could while keeping within her narrow SST frequency range. Later I learned that she heard me and had chased me like a fox, trying vainly to answer me. The next evening she raised her 40-m half-wave dipole up a bit further off the ground. She came right back to me bang on 7110 kHz, but was extremely weak. I made out little more than our call signs. She missed just enough letters of one thing I sent so she did not receive the critical information that I'd burned my popcorn! It turned out that our respective expeditions had located our campsites with 6240-foot Mt. Herman directly between us, which explains why our QRP signals had so much trouble connecting us.

Meanwhile, I'd had no trouble checking into the British Columbia Emergency Service Net on 3729 kHz by a savvy ruse: The only 80-m rig I had along was the LSB "KGE" rig, built by Derry Spittle, VE7QK, the original version of the now-famous Epiphyte. So, among the extra radio gear I threw in was my Curtis Lil Bugger keyer. I patched its sidetone circuit to a small external speaker. Then, by holding the microphone to the speaker, I was able to send "CW" on a frequency where I'm not allowed to use SSB! Net control treated me normally, like any other CW station. On Friday I asked to pass some traffic up on 3764 kHz, where VA7XX and W7TVA helped pass the traffic. W7TVA actually connected through to my mother with his phone patch. She wanted to know where Shuksan Arm was. Ah, the wonders of amateur radio!

As a QRP Expedition, the QSOs were a bit modest, to say the least.  
Here s the log:

Date/Time Z	KHz	Mode	W	Station	Remarks
09-03-0135	3729	CW	3	BCEN QNI QRU	
09-03-0216	7040	CW	2	VE6GGM s569 r449 Glen - Reindeer, AB	
09-03-0300	7110.4	CW	2	KD7CEL sked no QSO gave up 0344	
09-03-0346	7040	CW	2	W6RA s549 r439 Randy - Eureka, CA	
Randy s first QSO with his Small Wonder Labs SW-40!					
09-03-0445	3784	LSB	3	W7XM s59 Merl - Spokane, WA	
09-03-0500	3750.5	LSB	3	AB7D s57	Roseburg, OR
09-03-0510	3768	LSB	3	K7ED s55	
09-03-1409	3758	LSB	3	VE7AIC Mike - Okanagan Valley, BC	
09-03-1409	3758	LSB	3	VE7MB Rod - Crofton, BC	
09-04-0020	7039	CW	2	VE7SL s549 r559 Steve - 3 W Mayne Is. BC	
send photos jsm@integrate.bc.ca					
09-04-0133	3729	CW	3	VE7JH BCEN QNI QRU	
09-04-0155	3729	CW	3	VE7JH BCEN 2nd QNI QTC	
09-04-0200	3764	LSB	3	VA7XX s52 QSY for QTC	
09-04-0200	3764	LSB	3	W7TVA s59 QTC QSP to Mom in Bellevue, WA	
09-04-0302	7110	CW	2	KD7CEL s229 almost no copy except calls & SK	

I listened to my tiny VLF receiver a bit. It s great to be far enough away from power lines to actually hear the RF equivalent of my audio range: no dawn chorus or whistlers this time, just a series of pops, probably from lightning in this hemisphere. Insects were scarce enough that I didn t even hear them. Yes, they put out RF at the same frequencies we hear them normally. Mosquitoes sound like mosquitoes and horseflies sound like horseflies at VLF. "Natural radio" listening is a wilderness sport.

Lessons for next time: 1) Bring full-length ice axe. 2) Bring one fully-charged battery pack rather than three, two of which aren t up to their 13.5 VDC capacity. (Low batteries weigh the same in the pack as full ones.) 3) Don t forget the proper power interface cables for incompatible rigs. Better yet, cut down on rigs. 4) Bring more oil for popcorn to help prevent burning. 5) Apply sunburn stuff when travelling on snow in the mountains, even on a cloudy day. On the two sunny days, I gouped on lots of the stuff, topped by clown white on my nose and lips and ears. I guess it had mostly worn off by Saturday and consequently I returned to Blaine with a bright red nose!

72, Bruce Prior in Blaine, WA -- one of the Mangy Mushers aka Rudolph

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----

Date: Sun, 5 Sep 1999 21:38:05 EDT  
From: JFStrain@aol.com  
To: qrp-l@lehigh.edu  
Subject: [49472] Hiram Percy Maxim Birthday Celebration  
Message-ID: <3b3c153a.250474fd@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Anyone not taking advantage of the ARRL event going on through 11 September is missing out on a great way to pick up new states with little effort. I have been working 20M SSB and been amazed at the number of states I have been picking up with the /130 suffix... could make a special WAS group in itself. I have not been saying anything about being QRP as that might result in something less than the strong signal reports I am getting most of the time. In the process of playing around with this, I also got another Slovenian station, and one in Wales (who was running 400 watts to a 2 element beam and when I told him I was running less than 10 watts said that he'd never before thought of reducing power, but obviously contacts could be made with a lot less than he had been running!). Anyway, it sure is worth responding to the calls of the /130 stations regardless of what they are running, for with persistence the contacts can be made. And you may get a comment about what an amazingly strong signal you have (as long as you don't say anything about being QRP!) Details in September QST, page 48.

72,  
John W9MIU  
QRP-L 1088      QRP-QRCI 8173

-----  
Date: Sun, 5 Sep 1999 20:53:26 -0500  
From: "Ed" <ac5dc@ipa.net>  
To: qrp-l@lehigh.edu  
Subject: [49473] Re: BIG capacitors  
Message-ID: <199909060155.UAA20024@postoffice3.ipa.net>

The guys with the large sound systems in their cars have been using 1 farad caps for a while. An example can be seen at <http://www.pie.net/sec6sub5.htm>

72,  
Ed, AC5DC

-----



Date: Sun, 05 Sep 1999 22:18:51 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: qrp chat <qrp-1@Lehigh.EDU>  
Subject: [49474] EDZ / LAZY-H -A WASH! (literally)  
Message-ID: <37D3248B.60AF2666@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Think I'll write a book on "Dufus Ham Tricks". High on the list will be something like "Ig-nore the weather man... uh-huh oh yea..." This was the trial of the 20m EDZ/LAZY-H (per W4RNL) and I packed all teh stuff up the mountain on a hot, humid day. Steep, rocky climb at basically the angle of repose for rocks sized from SUV to Match Box. Arrived at chosen tulip trees and began assault with "Antenna Launching Device". ADL worked great... first shot over 100' on second try. Second tree took dozens due mostly to tiny snags and pounding ticker. Then came the bad part. No way could be found to clear the stuff in the way of raising the first EDZ at that altitude... this is DENSE forest we're talking here.

Explored for an alternate and found a lower pair suitable for a "plan-B" single EDZ. Then the rain came. First a drizzle -just enuff to raise the humidity to where my glasses fogged beyond redemption. Then the wind came up and the rain really got serious. Got punchy... went native... slogged it out and got two supports up strung the EDZ and feeder and in a relative lull I set up the DSW, Rainbow, and Z-Match... all in my back-pack cavity to minimize the soak.

20m was humming! Got the ant to load (green LCD only) and started to key. Only dashes! no dots! Then uncontrolled dashes/dots random. Really sick, hot, tired and as wet as you can get unsubmerged. Seemed like the TICK keyer was rebelling -maybe things got too wet? (the key was out in the rain.) I'd brought the 40+ on a whim and swapped it for the DSW.

40m was really kicking and I got excited untill I hit the key and SAME PROBLEM! -but now continuous "A"'s as long as the key was plugged in. More serious rain and real dissappointment. Maybe the old earphone cord on my key was wet/bad and was leaking closed a hi-Z input? Very sadly decide to scrub the mission and de-bug at home. The trek down the rocks was awful as most had wet lichens with coefficient of friction = nil.

I've had a shower, a brandy and a nap now but can't bring myself to go down to the spider hatchery and see what went wrong. Tomorrow is another day.

72  
=S=  
--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Sun, 05 Sep 1999 23:00:47 -0400  
From: "The One and Only!" <mitch96@pobox.com>  
To: k5zty@juno.com  
Cc: qrp-l@Lehigh.EDU  
Subject: [49475] Re: origin of "72"  
Message-ID: <37D32E5F.163D7C47@pobox.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

k5zty@juno.com wrote:>  
> It's the QRPers secret handshake. The origin is secret too. If we tell  
> you we will have to kill you. Tell the 'old gent' that it's secret  
> club stuff and to flake off.>  
> Bill, K5ZTY  
Absolutely Bill, and for heavens sake, make sure not to show him the  
secret  
decoder ring or we're all doomed!  
de Steve, W8SFF

Roger Wilco, over and out.....now where is that Rocket Man suit I  
left hanging  
on the Flux gate capacitor??? Darn!

--  
72.5, mitch ww4ml  
lost in the ethers again..

-----  
Date: Sun, 5 Sep 1999 20:24:35 -0700 (PDT)  
From: Paul Erickson <paule@sfu.ca>  
To: logullo@mindspring.com  
Cc: qrp-l@lehigh.edu (qrp)  
Subject: [49476] Re: RS 22-503 power supply--Yikes!  
Message-ID: <199909060324.UAA18847@fraser.sfu.ca>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Jeff,

One thing you might try is to loop a few turns of the power cord through a torroid core. I have found this useful with a number of power supplies that I have used with qrp rigs. Let me know how it goes.

cheers, Paul VE7CQK/email: paule@sfu.ca

>  
> About 6 weeks ago, I picked up one of the Shack's switching power  
> supplies, right before I left for my extended trip to Boston. Decided to  
> give it a dry run before I left--good thing!  
>  
> I hooked it up to my NorCal 20, and the receiver sounded fine. Then went  
> to transmit into a dummy load, and YUCK! Signal was terribly distorted!  
> With a deep sigh, I packed the gel cell and charger, and tabled the  
> 22-503 project.  
>  
> Stubbed my toe on the box tonight, and decided to investigate.  
> Suggestions? Could I have gotten a dud? Is 20 gauge (stranded speaker)  
> wire sufficient to carry the current?  
>  
> I'm pretty sure I did my final alignment running off a 13.8V power  
> supply... but I now wonder if I aligned using a battery instead... guess  
> I should start a lab notebook for these projects.  
>  
> Anyway, all suggestions are welcome.  
>  
> Jeff N MII  
>

-----  
Date: Sun, 5 Sep 1999 22:52:44 -0500  
From: "Nick Kennedy" <nkennedy@cswnet.com>  
To: <nielsen@primenet.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49477] Re: First Paddles(!)  
Message-ID: <002301bef81b\$47a2a740\$687054d8@big>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I had to smile when I received my folder at Ft. Tuthill and saw the square of whatever-it-is to keep my paddle from walking. I had spent some time trying to decide what to use before I independently found the same stuff at Wal-Mart. Great minds work alike.

The ScQRPoins gang made a pretty little pad with their scorpion insignia affixed, though. However, the scorpion tie-in just doesn't work for me. Let's just say this and leave it at that: There are two kinds of people: Those who have had a scorpion in their pants and those who haven't.

72,

Nick, Wa5BDU

-----Original Message-----

From: Bob Nielsen <nielsen@primenet.com>

>I've been wondering what that stuff was for!

>

>On Sun, Sep 05, 1999 at 12:18:24PM -0700, Gary L Surrency wrote:

>> A little pad of that stuff they sell at Wal-Mart, etc., to keep things  
>> from sliding around in the bottoms of kitchen drawers will stop your  
>> paddles from creeping. It's a rubberized fabric kinda stuff. (technical  
>> term). The ScQRPions passed this stuff out in the symposium solders at  
>> the Ft. Tuthill hamfests the last couple of years. Should work great  
>> under a lead-filled Altoids box.

-----  
Date: Mon, 6 Sep 1999 00:10:24 EDT

From: REDSBOY@aol.com

To: qrp-1@lehigh.edu

Subject: [49478] AOL fails AGAIN !

Message-ID: <5ae03a35.250498b0@aol.com>

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

Again, nothing is coming through AOL from qrp-1, including a message I sent to qrp-1. It has been a void for several hours, now. I will stand in line to get to an AOL operator, but I know it will be useless. I don't expect an answer to this - I'm just venting my frustration.

Karl - W4UTI

-----  
Date: Mon, 06 Sep 1999 00:24:23 +500  
From: Terry Bendell <terryb@bmts.com>  
To: <REDSBOY@aol.com>  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [49479] Re: AOL fails AGAIN !  
Message-ID: <199909060419.AAA12803@Alice.BMTS.Com>  
MIME-Version: 1.0

On 1999-09-06 REDSBOY@aol.com said:

>Again, nothing is coming through AOL from qrp-1, including a  
>message I sent to qrp-1. It has been a void for several hours, now.  
>I will stand in line to get to an AOL operator, but I know it will  
>be useless. I don't expect an answer to this - I'm just venting my  
>frustration.  
>Karl - W4UTI

ok i wont tell you that your getting through!

Net-Tamer V 1.11.2 - Test Drive

-----  
Date: 6 Sep 99 00:25:26 EDT  
From: Roy Lincoln <wa4dou@usa.net>  
To: REDSBOY@aol.com, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49480] Re: [AOL fails AGAIN !](OT)  
Message-ID: <19990906042526.8456.qmail@www0k.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable

Hi Karl,

AOL was my first ISP about 21 months ago. When they started giving me  
trouble over billing, within 48 hours of signing up, i DITCHED them. You =  
don't

have to put up with AOL. Plenty of good ISP's. 73 Roy Lincoln WA4DOU =  
=

=

-----=  
- =

=

REDSBOY@aol.com wrote:

Again, nothing is coming through AOL from qrp-l, including a message I sent =

to qrp-l. It has been a void for several hours, now. I will stand in line= to =

get to an AOL operator, but I know it will be useless. I don't expect an =

answer to this - I'm just venting my frustration.

Karl - W4UTI

-----  
Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

-----  
Date: Sun, 5 Sep 1999 22:52:16 -0600  
From: "Robert Armstrong" <barmstrong@sisna.com>  
To: "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [49481] Paddle contacts  
Message-ID: <000201bef823\$992a90c0\$cab4d2d1@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Some time ago a list member was selling silver-plated contacts for paddles ect. I can't remember who it was. Does anybody remember?

Bob, N7XJ, Utah

-----  
Date: Mon, 6 Sep 1999 00:50:25 EDT  
From: GElam30092@aol.com  
To: qrp-l@lehigh.edu  
Subject: [49482] Re: AOL fails AGAIN !..... now #2.  
Message-ID: <d280e625.2504a211@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

In a message dated 9/5/99 9:13:18 PM US Mountain Standard Time,  
REDSBOY@aol.com writes:

<< Again, nothing is coming through AOL from qrp-l, >>

Not having any problems here..... unless this message doesn't get through.

Oh... contact number 2 was just now on the DSW-40. K6PZE in San Diego! My range is improving and now I'm into CA. If you want to see what made this country great, read K6PZE's biography on QRZ.COM. It's amazing the contributions that he and his generation made to this country.

Don't worry... I won't post every single contact. I'm just do dog-gone excited! Maybe I'll get over it.

Cheers,  
Gerry, K1LR0  
PHX AZ

PS: why AOL? I travel a lot including trips to Mexico and Brazil. I can't beat the local access that AOL offers there. But Mindspring says they're working on international access. After \*many\* years on AOL, they may get replaced!

-----  
Date: Mon, 6 Sep 1999 00:12:10 -0500  
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
To: "qrp reflector" <qrp-l@Lehigh.EDU>  
Subject: [49483] re: spider kits  
Message-ID: <000101bef826\$61c504a0\$47350b3f@default>

Thanks to all who responded to my query about the spider kits. I got the 40 meter version on the air right away and managed a few contacts with qro stations but no qrp/qrp contacts yet. 30 meters will have to wait as I don't have any crystals for that band. As usual, this has been an awesome group. I really appreciate all the help I've received over the past months. Mike in Minnesota

-----  
Date: Mon, 6 Sep 1999 00:49:47 -0000  
From: "Brian Olson" <brolson@ties.k12.mn.us>

To: <qrp-l@Lehigh.EDU>  
Subject: [49484] QRP Rocket Beacons  
Message-ID: <NDBBJPBMGLKJGANKJAEJCEAJCAAA.brolson@ties.k12.mn.us>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have a need to build some small Transmitter Beacons for model rockets. They need to be light weight and low voltage. Ideas for Beacons could be just a simple beep tone or message. These will be put together by High School Special Education Students. Any help appreciated.  
Brian Olson N0XFE Bloomington, MN

-----  
Date: Mon, 06 Sep 1999 02:07:22 EDT  
From: charles k brown <n4so@juno.com>  
To: qrp-l@lehigh.edu  
Subject: [49485] PIC -Peripheral Interface Controllers  
Message-ID: <19990906.060554.7535.3.n4so@juno.com>

PIC chips are in the RadioShack catalog page 239  
about a dozen of the 12C and 16C chips are listed.///  
Microchip Technology  
2355 West Chandler Blvd  
Chandler, AZ 85224-6199  
tel 602-786-7200  
fax 602-899-9210  
<http://www.microchip.com>  
Digi-Key has a full page of PIC 16C series.  
Note: These require Preprogramming for them to work.  
QST mag, Oct. 1998, p. 34-40  
Ken Brown N4SO  
Mobile, AL/EM50tk  
NorCal-20/5 watts/4 ele. beam

-----  
Get the Internet just the way you want it.  
Free software, free e-mail, and free Internet access for a month!  
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Mon, 6 Sep 1999 10:18:05 +0200  
From: matti.niskanen@yle.fi  
To: qrp-l@Lehigh.EDU



Subject: [49486] DSW20: QRP or QRO, your choice  
Message-ID: <422567E4.002D8A27.00@notessri.yle.fi>  
Mime-Version: 1.0  
Content-type: text/plain; charset=us-ascii  
Content-Disposition: inline

Hi gang,  
I added a 2SC1945 stage to my DSW20 and it easily gives over 15 W out. Now I can use it on my sailing boat as a QRO rig (large batteries) or with reduced power when camping. All is in 11x10x4 cm box (power supply excluded). I do not have internet pages of my own but if you would like to see pictures of the construction, please send a message to me and you will get the pictures.  
73 Matt, OH2CF  
email: matti.niskanen@yle.fi

-----  
Date: Mon, 6 Sep 1999 01:21:56 -0700  
From: Wayne Burdick <n6kr@elecraft.com>  
To: qrp-l@lehigh.edu  
Subject: [49487] Kits: Apples and oranges? Figs and futons?  
Message-ID: <v03102813b3f90cc58f09@[206.169.248.51]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

As my good friend Doug (KI6DS) mentioned in his "What to Build" series, there is no shortage of opinions about kits. Here's mine.

(Note: Doug and I are both particularly ill-suited to render opinions since we both have conflicts of interest. Ask somebody else! In fact, you might as well skip the rest of this unless you \*like\* twisted debates.)

Any radio design is a compromise, optimizing a few features at the expense of others. As a result, you can end up with some bizarre comparison charts when you try to put them side-by-side. That's how I'd characterize some of Doug's choices. Being the fair and impartial guy that he is, Doug left no doubt that it was \*his\* particular set of criteria that were under consideration. However, probably for the sake of brevity, he didn't mention what criteria he might be leaving out.

To illustrate, here are the design goals for the Wilderness Radio kits that were under consideration (Sierra, NorCal 40A, SST):

1. Minimal component count consistent with stable superhet design (only 80 parts for the SST)
2. No wires; all controls/connectors mounted on one board

3. No surface mount parts
4. Extremely small size and light weight
5. Very low current drain  
( $< 20$  mA for the SST and '40A, 35 mA for the Sierra)
6. Low-noise, high-sensitivity receiver without digital switching noise
7. Complete kits, including case and all controls

Taken together, this is a very different list from that of some of the other rigs surveyed, making simple comparisons suspect.

There are many ways to achieve high performance. You might emphasize operating efficiency, or you might go for third-order intercepts that violate the laws of nature. You can use parts that are all visible to the naked eye, or you can help prepare builders for fine neurosurgery. You could design a lightweight rig, or perhaps one that will continue to work even when a Jeep is parked on its VFO.

Here's my point: manufacturers, builders, and kit reviewers (!) should take Doug's own advice and use standardized specifications to avoid misleading comparisons. Don't call a fig a futon (unless it is a very large and very soft fig).

Disclaimer: I designed and continue to support all three of the rigs described. (Like I said--ask someone else!)

73,  
Wayne Burdick  
N6KR

[www.elecrafter.com](http://www.elecrafter.com)

-----  
Date: Mon, 06 Sep 1999 08:44:55 -0400  
From: Bill Meara <n2cqr@erols.com>  
To: gqrp@onelist.com, qrp-1@Lehigh.EDU, homebrew@qth.net  
Subject: [49488] Pictures of N2CQR HB QRP  
Message-ID: <199909060846.EAA09283@smtp1.erols.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I've added a picture of my 20 meter station to the QRP and HB portion of my Web Site.

Cabinet by Home Depot. The tuning dial is a coffee can top. Check it out.

<http://www.erols.com/wmeara>  
73 de N2CQR  
Bill Meara, Falls Church, Virginia  
n2cqr@erols.com  
<http://www.erols.com/wmeara>

-----  
Date: Mon, 6 Sep 1999 09:55:06 +0100  
From: "Frank G3YCC" <frank@g3ycc.karoo.co.uk>  
To: "QGRP-L" <qgrp@onelist.com>, "QRP-L" <qrp-l@lehigh.edu>  
Subject: [49489] Paddles  
Message-ID: <00a801bef845\$85bc61e0\$56ef5cc3@prsat0x1>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

To make a really cheap but efficient paddle unit, use the idea on my web  
page regarding touch paddles

Check out <http://www.karoo.co.uk/g3ycc/tch1.html>

You can no doubt think of all sorts of ideas for the contacts.

Frank G3YCC  
QRP web page <http://www.karoo.co.uk/g3ycc/>

-----  
Date: Mon, 6 Sep 1999 07:50:10 -0400  
From: w2xn@juno.com  
To: qrp-l@lehigh.edu  
Subject: [49490] A small Milestone passed....  
Message-ID: <19990906.080258.-893061.2.w2xn@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Brian,

Well done! Good to hear so of all the accomplishments you have done.  
Keep up the good work, you will be glad you did when you reach the final

goal you set for yourself.

Congrats on all that you have accomplished so far.

Fred W2XN

Lakeland, FL

W5YI-VE Skywarn #POL-007 Polk County ARES AR QRP #233

QRP-L #1728 NJ-QRP #197

My Web Page: <http://w2xn.homepage.com/>

\*\*\*\*\*

Well, one year ago today I put my little Norcal 40A on the air at a screaming 5 WPM, all via the non-patented KF4KSM attic dipole...pumping a little under 2 watts out to the universe and beyond. I set three goals for myself and I wish I had made all three but hey, two out of three ain't bad.

I upgraded to General and my code speed is about 16-17 WPM. I earned, as of last night with K3NY, the FISTS Century Club Award

I missed WAS in a year, and I still need AK, ME, MT, NE, NH, NM, RI, UT, VT, and WY.

The best part of the last year for me was being a Novice/Tech Plus Fox. I think it sharpened my skills more than anything else I've done. I also participated in the Novice Roundup, the Colorado QRP Club contests, and a few other sprints that went a long way in bringing my speed up. Heck, I'm even a member of the Hawaii QRP club thanks to Dean and his most awesome ears.

So for the next year, I want to finish up WAS on 40M so I can justify buying and building a 20M rig, I want to upgrade to Extra before it gets phased out, and I want to do well in the fox hunts this year. I'm on the Underdogs! GO DAWGS!

QRP-L and the folks here have been an immense source of data, instruction, entertainment, and knowledge. Thanks to you all, you make Ham Radio fun for me.

-----  
Get the Internet just the way you want it.

Free software, free e-mail, and free Internet access for a month!

Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----

Date: Mon, 6 Sep 1999 09:17:03 -0400

From: "Charlie Fitts" <cfitts@neca.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49491] 2SC4137 Pin out?  
Message-ID: <199909061317.JAA08605@orion.neca.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

The 2SC4137 is a TO-126 device that's described (on a web site I stumbled across) as being capable of 4W out at 400 MHz. I couldn't find any other specs and my cross reference books don't list it. I ordered a couple to experiment with anyway since they're cheap (\$.36 each from Mouser). Can anyone out there point me to a web site that describes this device, or can they provide me with a pin out description?

Thanks a lot.

Charlie Fitts, N1EI

-----  
Date: Mon, 06 Sep 1999 09:24:27 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: brolson@ties.k12.mn.us  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49492] Re: QRP Rocket Beacons  
Message-ID: <37D3C08B.2A572006@worldnet.att.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I pretty sure you can't get much lighter than the Embedded research SMT TICK-3 or TICK-4. Built one 3 days ago and it's a champ -that includes Beacon mode.

72

-s-

Brian Olson wrote:

>  
> I have a need to build some small Transmitter Beacons for model rockets.  
> They need to be light weight and low voltage. Ideas for  
> Beacons could be just a simple beep tone or message. These will be put  
> together by High School Special Education Students. Any help appreciated.  
> Brian Olson N0XFE Bloomington, MN

--

'Seab' Lyon - AA1MY

Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Mon, 6 Sep 1999 10:43:05 EDT  
From: JClinton46@aol.com  
To: qrp-l@lehigh.edu  
Subject: [49493] attic ant. installation  
Message-ID: <db7ca880.25052cf9@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

HF QRP operation has got me interested to upgrade and try my hand at building. Right now I am trying to get ready with a real antenna, I live in a restricted community so any antenna has to be invisible. (Being funds limited, a tower would be out even if I lived in friendly space) I have a large attic, some of it occupied by a large bonus room. Still, I thought it would be a great place for a hidden antenna.

I recently bought a G5RV jr dipole antenna. I was going to run 1 leg over the bonus space (only obstacles were wiring for ceiling lights and smoke detector which I felt would not be much of a problem) and the other would drop at an angle a few feet then follow the ridgeline in clear attic space. The ladder line could then be vertical for 8' plus alongside the bonus room wall. When I started installation I discovered a large aluminum film covered air conditioning flex duct was in the way (at the top of the bonus room wall). I could probably separate the ant & duct by 6"-12" by zig-zagging the ant. But is this enough? It would still parallel the antenna for about 6'-8'. Do I need to also insulate a section of diploe near the duct? Does anyone have a better solution?

Thanks in advance for your help.  
Clint  
KE4FDT

-----  
Date: Mon, 06 Sep 1999 10:39:36 -0400  
From: Bob Edwards <w4ed@gis.net>  
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [49494] Paddles - TFR  
Message-ID: <37D3D228.DC6BDE2A@gis.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

A pictorial on building a light weight paddle(s) is at :

[http://www.qsl.net/w4ed/rbe\\_pdl.htm](http://www.qsl.net/w4ed/rbe_pdl.htm) & follow the last link.

fwiw....

```
--
                                /|
                                / |
      Bob    72/73              | /K2|\
      email, w4ed@amsat.org      | / 21| \
      http://www.qsl.net/w4ed    /| / 21| \
      nr Atlanta, GA    EM73wt  /_|/_ __|__\_|
      ~~~~~~              [ \-----/
```

-----

Date: Mon, 06 Sep 1999 10:45:07 -0400  
From: Bob Edwards <w4ed@gis.net>  
To: n2cqr@erols.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>  
Subject: [49495] Re: Pictures of N2CQR HB QRP  
Message-ID: <37D3D373.F194A025@gis.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bill Meara wrote:

> I've added a picture of my 20 meter station to the QRP and HB portion....

> <http://www.erols.com/wmeara>

Nice rig & great commentary - Thanks Bill.

```
--
                                /|
                                / |
      Bob    72/73              | /K2|\
      email, w4ed@amsat.org      | / 21| \
      http://www.qsl.net/w4ed    /| / 21| \
      nr Atlanta, GA    EM73wt  /_|/_ __|__\_|
      ~~~~~~              [ \-----/
```

-----

Date: Mon, 06 Sep 1999 10:53:10 -0400  
From: Mark Sailer <msailer@willys.buoy.com>  
To: qrp-l <qrp-l@lehigh.edu>  
Subject: [49496] 40m Radio - Which one?  
Message-ID: <37D3D556.AABE58AA@willys.buoy.com>  
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The debate of which radio continues. I have been looking at the following 4 kits

NorCal 40A

DSW40

SW+ 40

RedHot 40

What I'm looking at in spec is:

- hottest receiver
- quietest receiver
- lowest current draw
- builtin keyer?

Does one radio have them all, or 3 of 4. Or are these mutually exclusive?

Not concerned with

- price difference - performance is the issue
- cabinet included or not included
- minor difference in sizes

I'll be using this as a home radio (primary) and for portable operation (mobile, camping). Does anyone have a full list of specs and personal experience with any of these radios? How do they compare to the HW-9 on 40m as this is my present radio?

TNX

gotta build it before the fox hunts start ; )

--

====

Mark Sailer, N2JTW           msailer@buoy.com  
Lake Grove L.I., NY

-----  
Date: Mon, 06 Sep 1999 11:37:19 -0400  
From: "Robert W. Shaw" <lycott@fox.nstn.ca>  
To: <qrp-l@lehigh.edu>  
Subject: [49497] OT: Fixing TV Remotes  
Message-ID: <3.0.5.32.19990906113719.0081acb0@fox.nstn.ca>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"



Where else to ask? I have several TV remotes on which some buttons work, others don't. Took apart and cleaned the PC board and rubber membrane (it didn't look dirty). Reassembled and SAME keys don't work. Any suggestions?

Oh, I guess the IR led is under 5W.!

72 de Bob.

-----  
Date: Mon, 06 Sep 1999 11:14:19 -0500  
From: Dave Redfearn <n4elm@texoma.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49498] FS: LDG AT-11 automatic antenna tuner  
Message-ID: <37D3E85B.31948F61@texoma.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

For Sale:

LDG AT-11 automatic antenna tuner

this is 100 watt version but I have used it sucessfully at QRP levels down ro about 2 watts.

Works fine, slight scratches on the top of the case.  
Includes manual.

\$150.00 OBO + shipping from TX.

73 - Dave

=====  
Dave Redfearn, ARS N4ELM, McKinney, TX  
Email: n4elm@NOJUNKtexoma.net (to reply, remove NOJUNK)  
QRL? de N4ELM/qrp

-----  
Date: Tue, 7 Sep 1999 00:12:45 +0800  
From: "Sly (9M8SL)" <cqsly@tm.net.my>  
To: yb6ld@arrl.net  
Cc: <qrp-1@Lehigh.EDU>  
Subject: [49499] Tks dr Donny fer ur reply as well...  
Message-ID: <19990906161245.CCEG28402@User>  
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hi Pak Don,

Ok the infors u want are as follows:

Kuching to Pontianak via Entikong (to and fro) about 70 Malaysian Ringgit.  
Don't know the latest conversion to Rupiah, have to check...  
Sri I typed wrongly, in Iban it should be 'datai' for datang. I taught in Bahasa Melayu so I am a bit confused at times. Hi...

Anti nuan uleh nulis, tentu nuan uleh jako manyuh, ukai mimit ajak, Pak Don  
! Nuan agi nemu Jako Iban kami.  
Oh yes, When I went to the museum in Pontianak, the curator speaks to us in Iban, so no surprises there.  
We are a common people separated by the borders! Kita serumpun ya...

Pak Don, I taught in a Secondary School, seperti SMP di Indonesia. Not much problem with the net, coz everybody uses English daily, after more than 150 years of British rule as u already know. Also, almost everybody has computers nowadays. Even my SMP school has more than 40, and I have 2 at home. I am into homebrewing and sum qrp backpacking hr, but my 5 watts mostly goes to JA and VK. I guess they have more stations than us and are easy to catch! Yes, I am the one who introduces JOTA, QRP and Backpacking to the School scouts here some years ago and I guess everything u do here is like an early pioneer. Very interesting indeed, but vy tiring as well ! Hee Hee...

Uuuh Ha! Iban manjong. Pak Don that's the infors I could gather for now. Let me know if u have any more queries and I'll try to ask around. Sampai jumpa lagi, salam 72/73 dan cheerio...

Vy 72/73 fm de sly, 9M8SL  
fm Sarawak, 'The Hidden Paradise of Borneo' ( East Malaysia).

-----  
Date: Mon, 6 Sep 1999 09:14:44 -0700  
From: "Ron Giuntini" <rong@slip.net>  
To: <lycott@fox.nstn.ca>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>  
Subject: [49500] Re: Fixing TV Remotes  
Message-ID: <000a01bef882\$f03080a0\$08a598d1@rongiuntini>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

The membrane has conductive coatings under each button. They wear off. Alcohol affects some types of conductive coating. To repair, use conductive epoxy and coat each button. I had great success also by cutting tiny squares of aluminum foil and epoxy cementing them to each contact pad. There is a faq on electronic repairs of tv remotes at [http://www.repairfaq.org/REPAIR/F\\_Repair.html](http://www.repairfaq.org/REPAIR/F_Repair.html)

----- Original Message -----

From: Robert W. Shaw <lycott@fox.nstn.ca>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Monday, September 06, 1999 8:37 AM  
Subject: OT: Fixing TV Remotes

> Where else to ask? I have several TV remotes on which some buttons work,  
> others don't. Took apart and cleaned the PC board and rubber membrane (it  
> didn't look dirty). Reassembled and SAME keys don't work. Any  
suggestions?

>

> Oh, I guess the IR led is under 5W.!

>

> 72 de Bob.

>

>

-----  
Date: Mon, 06 Sep 1999 11:25:46 -0500  
From: Mike <mmorrow@companet.net>  
To: qrp-l@lehigh.edu  
Subject: [49501] RE: First paddles  
Message-ID: <37D3EB0A.5689@companet.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

I normally use a Bencher for my iambic key. But I'd like to hear from anyone familiar with the very small, seemingly well-built iambic keys from "Paddlette" in Bremerton, WA. They are made mainly out of a block of "milled" PVC and brass strips. They appear to be capable of very fine adjustments in contact spacing.

One of these would seem to be ideal as a portable key to accompany my new DSW-20 (mounted with the included magnetic strips to the top of the standard DSW enclosure).

Any observations from anyone who has used the "Paddlette" keys?

73 ("72" is a little \*too\* cute)

Mike / KK5F

-----  
Date: Mon, 6 Sep 1999 09:44:20 -0700 (PDT)  
From: Monte Stark <ku7y@dri.edu>  
To: Mike <mmorrow@companet.net>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49502] RE: First paddles  
Message-ID: <Pine.GS0.4.10.9909060938150.11426-1000000@rotor.dri.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Mike,

I was sent a set of the Paddlette paddles and they seemed very nice. I sent them on to a fellow in CA (I think it was!) to review for the Quarterly. He also had one of the other Paddlette models and would have been a nice article.

However, I've never heard back from him and for the life of me I can't remember who it was! That's what happens when you don't keep good records!

Anyway, I am considering getting a set to use in the pick up, if I put the rig in there. Not sure yet if I want the paddles on my leg or not.....

I would not go quite so far as to recomend them to learn on but that's just me. But for a paddle that you can throw in the pack or even pocket and fully expect it to still work when you take it out I would think this one would

fit the bill just fine.

cul,

73, Ron,        SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....  
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....  
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

-----  
Date: Mon, 6 Sep 1999 12:45:42 EDT  
From: REDSBOY@aol.com  
To: qrp-l@lehigh.edu  
Cc: neilsen@primenet.com  
Subject: [49503] Re: Paddles  
Message-ID: <2b43e33e.250549b6@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Bob, I don't think you will find looking for Brown Bros. paddles to be an easy task. The last set I saw was at the Huntsville (Alabama) Hamfest and the guy who scooped them up was on 40 meters later talking about the coup he had accomplished in bagging them. If you are looking for Brown Bros. you might also look for HAM-KEY Model HK-1 (Also made in St. Louis). They seem sorta similar to the ol' Brown Bros. and have a fairly nice feel even though they have a lot of plastic parts. I have a set of them here that I drag out once in a while, just for variety.

HAM-KEY is also out of business, I guess.

Hey, Bob, if you want to see what it was like in "the ol' days" before "paddles" check my nostalgic website at: <A  
HREF="http://members.aol.com/redsboy/index.html">KG6FAA - HAM RADIO IN  
PARADISE</A> . I'm trying to get in touch with any of the ol' geezers I knew who might still be kicking around. You may even know some of them - I hope.

Regards,

Karl - W4UTI

-----  
Date: Mon, 06 Sep 1999 09:57:30 -0700  
From: Brian Kassel <bkassel@dancris.com>

To: GElam30092@aol.com  
Cc: azqrp@extremezone.com, qrp-1@lehigh.edu  
Subject: [49504] Re: [azqrp] first contact!  
Message-ID: <37D3F27A.C6A7E6A7@dancris.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

> GElam30092@aol.com wrote:  
>  
> Now I can admitted to being addicted (Hi... my name is Gerry. I own xx  
> radios and am adicted to QRP.) since am Elecraft K2 will probably be here  
> early next week!

Gerry:

Congrats! As you seem to have been bitten pretty hard, maybe you can continue to make a few QSO's now and then down at W7ASC. It's really neat to hear of your experiences and feel your enthusiasm. I'm still amazed after all of these years.

Brian W5VB0

-----  
Date: Mon, 6 Sep 1999 13:01:49 EDT  
From: ADRAMIS@aol.com  
To: qrp-1@lehigh.edu  
Subject: [49505] Cleaning Up Shack  
Message-ID: <a58a5538.25054d7d@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

Hello, Cleaning up the shack and have the following Items for sale.

- 1) Small Wonder Labs GM-15 Qrp 15 meter transceiver, Built and working fine with no case, board and pots, jacks only, I also have parts and manuals to convert to Gm-30 30 meter transceiver. Asking \$50.00
  - 2) R1 rx board with 1kHz and 3kHz filters built and tested with prints and article from "QST article A Classic 40 meter RX Aug 92". asking \$40.00
- If interested please Reply direct to ADRAMIS@AOL.COM

-----  
Date: Mon, 06 Sep 1999 10:13:24 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: msailer@willys.buoy.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [49506] Re: 40m Radio - Which one?  
Message-ID: <37D3F634.37EEADCB@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mark Sailer wrote:

>  
> The debate of which radio continues. I have been looking at the  
> following 4 kits  
> NorCal 40A  
> DSW40  
> SW+ 40  
> RedHot 40  
>  
> What I'm looking at in spec is:  
> - hottest receiver

RH-40 should be the one for this, but with highest (by far) RX current drain, extrapolating from RH NC-20 specs

> - quietest receiver

In most cases hottest may be quietest (again RH-40); others are likely to be similar, but I've only used the NC-40A. Note that "quiet" may be less important on 40 meters than higher bands due to QRN, QRM, etc. I suspect of the "low current threesome" the NC-40A may have the best IF filtering, based on purusing the circuit of it and the DSW-20 which I am building (assuming DSW-20/40 and SW+ 40 are similar in that area)

> - lowest current draw

Without looking at the specs, NC-40A and SW+ 40 should be lowest, with DSW-40 maybe twice as high (based on more features and digital implementation); all should be OK for ops off AA battery packs (all in same current drain class). RX current for RH-40 is nominally 4 times higher than the DSW-40.

> - builtin keyer?  
>

DSW-40 and RH-40; but KC-1 can be added to NC-40A. I \*assume\* the SW+ 40 can be similarly augmented.

> Does one radio have them all, or 3 of 4. Or are these mutually  
> exclusive?

>  
> Not concerned with  
> - price difference - performance is the issue  
> - cabinet included or not included  
> - minor difference in sizes  
>  
> I'll be using this as a home radio (primary) and for portable operation  
> (mobile, camping). Does anyone have a full list of specs and personal  
> experience with any of these radios? How do they compare to the HW-9 on  
> 40m as this is my present radio?  
>

For camping with a Gel Cel (I use a 7 AH Power Station), the RH-20 will give hotter receiver and more output power. That would be my choice. Or go for an Elecraft K2 and get the best receiver and all bands (but a thinner wallet!).

Hope this helps!

Phil

-----

Date: Mon, 06 Sep 1999 10:34:53 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: n6kr@elecraft.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49507] Re: Kits: Apples and oranges? Figs and futons?  
Message-ID: <37D3FB3D.AC876263@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Wayne Burdick wrote:

>  
> As my good friend Doug (KI6DS) mentioned in his "What to Build" series,  
> there is no shortage of opinions about kits. Here's mine.  
>

Nice message, Wayne, and well put. I'm now building a DSW-20 (an alternative to the SST with some plusses [keyer, AFA, full band coverage, digital] and minuses [e.g., more current drain]) .. both SST and DSW nifty for backpacking, etc.

It is interesting (being the only non-N6KR rig I've built) to see the different approaches/decisions of kit designers.



BTW .. Are futons edible? I've eaten the others but not a futon!

73,

Phil W7OX

-----  
Date: Mon, 06 Sep 1999 10:50:15 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: n4so@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49508] Re: PIC -Peripheral Interface Controllers  
Message-ID: <37D3FED7.AFF4791E@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Ken,

Are they "in store available" or special order? It is good to see RS expanding their wares!

Phil

charles k brown wrote:

>  
> PIC chips are in the RadioShack catalog page 239  
> about a dozen of the 12C and 16C chips are listed.///  
> Microchip Technology  
> 2355 West Chandler Blvd  
> Chandler, AZ 85224-6199  
> tel 602-786-7200  
> fax 602-899-9210  
> <http://www.microchip.com>  
> Digi-Key has a full page of PIC 16C series.  
> Note: These require Preprogramming for them to work.  
> QST mag, Oct. 1998, p. 34-40  
> Ken Brown N4SO  
> Mobile, AL/EM50tk  
> NorCal-20/5 watts/4 ele. beam  
>  
> -----  
> Get the Internet just the way you want it.  
> Free software, free e-mail, and free Internet access for a month!  
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

-----  
Date: Mon, 6 Sep 1999 13:14:07 +0000  
From: "Steven Weber" <kd1jv@moose.ncia.net>  
To: qrp-1@lehigh.edu  
Subject: [49509] 2N2/40 Mods, Mixer post amp and variable RF gain  
Message-ID: <199909061755.NAA25212@moose.ncia.net>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Hi Gang,

I finally came to the conclusion that my 2N2/40 had too much gain. MSD was well below 0.1 uv and that's at least 10 times more than what's needed on 40 M, considering the average level of QRN, both natural and man made.

So, I tried something that worked well with another rig I'm building and was having all kinds of problems with the post mixer amp. In a moment of frustration, I took the post mixer amp out completely and simply used a 1:4 transformer to match the output of the DBDM to the input of the xtal filter. The DBDM is of course, terminated with a 51 ohm resistor and a 270 ohm or so resistor on the xtal filter side probably would be a good idea too.

I removed the post mixer amp, terminated the mixer with a 51 ohm resistor and added the 4:1 transformer. Sensitivity dropped down to about 1-2 uvs, which is still pretty sensitive enough. Now the background atmospheric noise is well down, but you can still tell it's there.

First I tried a wide band transmission line transformer, like the kind used in other places in the rig, ie, the bifiller wound ferrite core, but that didn't work too well, maybe I didn't have enough turns. Then I tried an actual transformer on a BN-43-2402 balun core and that worked well.

I believe by removing the post mixer amp, the IMD is somewhat improved, as that amplifier has to deal with some pretty strong mixer products from near-by QRO stations and SWBC stations, which can cause overloading and distortion in the amplifier. Also, since the xtal filter isn't seeing as much strong wide band signals, there's less blow by.

I know this isn't "supposed" to be a proper way of terminating a DBDM, because the impedance reflected back from the xtal filter is not constant with frequency, but I believe the 51 ohm resistor on the

mixer and the transformer swamp out these variations.

I think it's a mistake often made to make a receiver too sensitive, especially on 40. All it does is bring up the atmospheric back ground noise and doesn't help hear weak signals any better. If a signal is near the noise floor, no amount of amplification is going to make the S/N ratio better, it will just make it worse. That extra amplification can degrade the overall performance of the receiver since all the other strong signals will equally amplified and possibly lead to overloading.

Anyway, this is an easy enough mod to try and if you don't like it, it's easy enough to take out again! BTW, after doing this mod, you might want to add some more audio gain, which is easiest to do by tacking in an op amp, provided your not a purest!

#### RF Gain control

Another mod I made which works good is variable RF gain. The schematic is at home, so don't have the part number handy, but I replace the resistor that's switched in to increase the RF amp gain with a 1N4007 diode. The cathode goes to ground and a pot across the diode controls the gain. I used a 10 K pot, as it was handy, but a 5 K or 1 K might be better. The wiper goes to the diode anode, and a 22 uhy choke at the diode, isolates the RF from the wire going to the front panel gain control. One side of the pot is grounded and the other goes to +12 through a 10K resistor, to limit the current into the diode.

This RF gain control doesn't have a whole lot of range, but now I tend to leave the AF gain set at a comfortable level and use the RF gain as the volume control.

72,

Steve, KD1JV in the white Mountains of New Hampshire  
"melt solder"

-----

Date: Mon, 6 Sep 1999 12:08:59 -0600

From: "Roy" <ab7ce@email.msn.com>

To: <w7ox@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [49510] Re: 40m Radio - Which one?

Message-ID: <004301bef892\$e8cfd1c0\$85c7fad0@pavilion>

-----Original Message-----

From: Phil Wheeler <w7ox@mindspring.com>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Monday, September 06, 1999 11:16 AM  
Subject: Re: 40m Radio - Which one?

>  
>

>Mark Sailer wrote:

>>

>> The debate of which radio continues. I have been looking at the

>> following 4 kits

>> NorCal 40A

>> DSW40

>> SW+ 40

>> RedHot 40

>>

>> What I'm looking at in spec is:

>> - hottest receiver

Build your self a Sierra with a 40 mtr module. Super receiver, with all the features you could want. Super low current drain. When you are ready for another band you can just build another module, from 160 thru 10 mtrs. Ive built them all its the only one that still sits on the bench next to my K2. My not so humble opinion. Roy AB7CE

-----  
Date: Mon, 06 Sep 1999 11:36:15 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: GElam30092@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49511] Re: qrp humor.....  
Message-ID: <37D4099F.59F2CF0F@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gerry,

Wish it was humor. I'm building a DSW-20 (slowed down by losing one of the connecting cables last night, but I just found it .. YES!).

Last month I finished K2 #380.

The month before I added a KC-2 to my Sierra (built in 1996) and realigned my NC-40A (also 1996).

Upcoming:

- o Build a ZM-2 (on order) .. must be built before Oct. 4 (for a trip)
- o Build an RH NC-20 (on order)
- o K2 options .. AT, SSB, NB (on order)

Likely only the ZM-2 will get done before the trip, since I will be working 7 days a week (proposal) until I fly away four weeks from today. Lots of free time when I get back, though.

So in the following, just put my name in (you will have other volunteers) and make the list of equipment longer!

```
> *****
> Hello, my name is XXX..... and I'm a ..... qrp'er
>
> I started off just doing a little qrp on weekends - you know, turning
> down the output on the big rig, just to, you know, experiment
>
> pretty soon, I couldn't wait for the weekends and started doing qrp alone
> in the house, sneaking in a qso before the xyl got home, using headphones
> so no one would hear the cw
>
> a buddy, at least that's what I thought he was, slipped me his 38 Special
> for a couple of weeks and I was.....HOOKED.....
>
> then a dealer got to me and I began to do the hard stuff - kits and
> homebrew - now I've got a DSW-40 and a DSW-20. Its been a slippery slide
> ever since.....
> *****
```

Phil

p.s. -- My other hobby, astronomy, is equally goodie-hooking; but qrp doesn't work so well in astronomy (other than binoculars). Aperture rules; my 8 incher weighs in at 50-60 lbs (with EQ mount) and takes a bit of storage space; and it is not viewed as a "large" scope.

-----

Date: Mon, 6 Sep 1999 13:43:11 -0500  
From: "Randy Jouett" <rules@bellsouth.net>  
To: <aa5tb@swbell.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49512] Re: QRN & Band Condx  
Message-ID: <025d01bef897\$c8d03130\$42e498cd@spock>  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

-----Original Message-----

From: Steve Yates, AA5TB <aa5tb@swbell.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Friday, September 03, 1999 5:19 PM  
Subject: Re: QRN & Band Condx

Hi Steve,

>The 30m QRN could be about anything. Sometimes televisions can be a  
>problem. For your 20m noise description, it sounds like it could be a touch  
>lamp. Be sure to unplug any touch lamps you can find. Turning them off  
>isn't good enough. Computer monitor and/or television horizontal sync  
>circuits are a possibility also although TV emissions are usually more  
>narrowband and occur at about 15 kHz intervals. Good luck.

Another source is a bad ballast in a fluorescent lamp, and SCR-controlled  
Halogen lamps can be a real pain, too.

Here's another one. I know a ham that has a neighbor that purchased  
an broad-spectrum, RF-generating device that was designed to intentionally  
interfere with CB and ham operators. I guess you could call it a TVI pay-back  
device. Anywho, my ham friend (KB5PX) had 20-over noise across all  
ham bands. The FCC finally caught his neighbor, arrested him for  
intentional interference, and slapped a massive fine on him to boot.  
This all happened around 10 years ago. I wonder if any of the devices  
are still out there, causing all kinds of havoc to unsuspecting amateurs?

72/73,

----

Randy Jouett, AB5NI

P.S.

If you live near a hospital, you could be getting interference from  
some of their equipment.

-----

Date: Mon, 06 Sep 1999 11:47:56 -0700  
From: Phil Wheeler <w7ox@mindspring.com>

To: Roy <ab7ce@email.msn.com>  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49513] Re: 40m Radio - Which one?  
Message-ID: <37D40C5C.B71F20AD@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Good advice, Roy. I suspect the RH NC-20/40 reciever is better, though (which is one reason it pulls 160 ma or so on RX). Dave Fifield optimized the NC-20 for RX performance (vs. current drain) and it is speced at a nominal MDS of -135 dBm, the same number in the K2 manual.

Phil

Roy wrote:

>  
> -----Original Message-----  
> From: Phil Wheeler <w7ox@mindspring.com>  
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
> Date: Monday, September 06, 1999 11:16 AM  
> Subject: Re: 40m Radio - Which one?  
>  
> >  
> >  
> >Mark Sailer wrote:  
> >>  
> >> The debate of which radio continues. I have been looking at the  
> >> following 4 kits  
> >> NorCal 40A  
> >> DSW40  
> >> SW+ 40  
> >> RedHot 40  
> >>  
> >> What I'm looking at in spec is:  
> >> - hottest receiver  
> Build your self a Sierra with a 40 mtr module. Super receiver, with all the  
> features you could want. Super low current drain. When you are ready for  
> another band you can just build another module, from 160 thru 10 mtrs. Ive  
> built them all its the only one that still sits on the bench next to my K2.  
> My not so humble opinion. Roy AB7CE

-----  
Date: Mon, 06 Sep 1999 12:17:50 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: n7rr@hotmail.com  
Cc: qrp-1@Lehigh.EDU

Subject: [49514] Re: Shuksan Arm QRP Expedition Report  
Message-ID: <37D4135E.37C479DB@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Bruce Prior wrote:

>  
> QRPers and other interested folks --  
>  
> First of all, I brought entirely too much radio gear for a  
mountaineering  
> trip. On the not-very-accurate bathroom scales, it weighed between 12 and  
> 13 pounds!  
>

Bruce, a most interesting report. Yeah 13 lbs is a but much: You could have carried a K2 with built in 2.9 AH gel cell and come in way under that. I am curious to see a complete list, with weights.

BTW -- Why not alkaline or Lithium AAs? More Amp-Hrs per lb, I suspect. And DSW should do fine with about 9 in series.

Phil

-----

Date: Mon, 06 Sep 1999 12:34:07 MST  
From: "Chuck Adams, K7Q0" <k7qo@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [49515] MI QRP Labor Day test is today  
Message-ID: <19990906193407.55442.qmail@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Gang,

I just got mail from Buck today and I had forgotten about the test.

I will be on the air as K7Q0/5 and this will be the last day that a signal is heard from me from Dallas TX. The antenna comes down in the a.m.



The test is from 2300UTC until 0300UTC, so just a measely 4 hours of time, but a lot of fun. I'll have the DSW-20 on the air to give it a shakedown.

See you in the test.

dit dit

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

-----  
Date: Mon, 6 Sep 1999 14:28:20 -0500  
From: "Nick Kennedy" <nkennedy@cswnet.com>  
To: <lycott@fox.nstn.ca>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49516] Re: Fixing TV Remotes  
Message-ID: <001801bef89d\$fb4c7b40\$187154d8@big>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I guess different ones work on differing principles. Some years ago the keys on my AEA CK-2 keyer started going intermittent. In this design, what looked like a rubber pad would press down on a pair of parallel conductors. No doubt the rubber surface had something in/on it to make it conduct and short those conductors. I took a little graphite and applied it to the pads. Worked fine after that.

Note: I'm sure too much graphite would result in a continuous "on" switch.

72,

Nick, Wa5BDU

-----Original Message-----

From: Robert W. Shaw <lycott@fox.nstn.ca>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Date: Monday, September 06, 1999 10:36 AM  
Subject: OT: Fixing TV Remotes

>Where else to ask? I have several TV remotes on which some buttons work,  
>others don't. Took apart and cleaned the PC board and rubber membrane (it  
>didn't look dirty). Reassembled and SAME keys don't work. Any  
suggestions?

>  
>Oh, I guess the IR led is under 5W.!!  
>  
>72 de Bob.  
>  
>

-----  
Date: Mon, 6 Sep 1999 13:35:00 -0600  
From: "Roy" <ab7ce@email.msn.com>  
To: <w7ox@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [49517] Re: 40m Radio - Which one?  
Message-ID: <002101bef89e\$ebef43c0\$04c7fad0@pavilion>

-----Original Message-----  
From: Phil Wheeler <w7ox@mindspring.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Date: Monday, September 06, 1999 12:50 PM  
Subject: Re: 40m Radio - Which one?

>Good advice, Roy. I suspect the RH NC-20/40 reciever is better, though  
>(which is one reason it pulls 160 ma or so on RX). Dave Fifield  
>optimized the NC-20 for RX performance (vs. current drain) and it is  
>speced at a nominal MDS of -135 dBm, the same number in the K2 manual.  
>  
>Phil  
My nc-20 is a good receiver, but not any better than my sierra. And the  
sierra has a variable crystal filter that makes it easier to copy weak  
signals. And no matter what mods I have done to the VFO regulation of the  
NC20, Its better, but most contacts can tell you are using a nc20 before  
you tell them. I sure can. Sierra and K2 reports are always on what a great  
CW note they have. To me what you send is as important as what you receive.  
72/73 roy ab7ce

-----  
Date: Mon, 06 Sep 1999 16:06:06 -0400  
From: "The One and Only!" <mitch96@pobox.com>  
To: qrp-1 <qrp-1@Lehigh.EDU>  
Subject: [49518] Hex Beam antenna  
Message-ID: <37D41EAE.CC18CE97@pobox.com>

MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi,  
Does anyone have any experience with the Traffie "Hex Beam"???  
Looks to good to be true. Light, small, good gain, good f/b, but not  
cheap. Has any one modeled one?? Has any one home brewed one??  
web site is <http://www.traffietech.com/index.html>  
Inquiring minds want to know....

--

72.5, mitch ww4ml  
lost in the ethers again..

-----

Date: Mon, 6 Sep 1999 13:08:49 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-1@lehigh.edu>  
Subject: [49519] Organizing components  
Message-ID: <001201bef8a3\$a1ca4ce0\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi All,

Its been a great QRP week for me. Finished my NC20 about a week ago, on  
Saturday I put together a DSW-40, yesterday I put together a ZM-2, and now I'm  
starting the K-2. Which brings up my question: how do most of you organize  
components, specially in a large kit like the K2. I've been using a cupcake  
baking dish, but I'm looking for better ideas. I spend WAY too much time  
looking for each part. I want to organize everything first while doing the  
inventory, and then build!

Thanks & 73,  
Kory  
AC6RN

-----

Date: Mon, 06 Sep 1999 13:22:10 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: mitch96@pobox.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [49520] Re: Hex Beam antenna  
Message-ID: <37D42272.C21FE1AC@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

The portable version was given generally favorable good reviews in the March 1998 QST.

Phil

"The One and Only!" wrote:

>  
> Hi,  
> Does anyone have any experience with the Traffie "Hex Beam"???  
> Looks to good to be true. Light, small, good gain, good f/b, but not  
> cheap. Has any one modeled one?? Has any one home brewed one??  
> web site is <http://www.traffietech.com/index.html>  
> Inquiring minds want to know....  
> --  
> 72.5, mitch ww4ml  
> lost in the eithers again..

-----  
Date: Mon, 06 Sep 1999 13:27:55 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: ab7ce@email.msn.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49521] Re: 40m Radio - Which one?  
Message-ID: <37D423CB.E3472D09@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Roy wrote:

>  
> -----Original Message-----  
> From: Phil Wheeler <w7ox@mindspring.com>  
> To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
> Date: Monday, September 06, 1999 12:50 PM  
> Subject: Re: 40m Radio - Which one?  
>  
> >Good advice, Roy. I suspect the RH NC-20/40 reciever is better, though  
> >(which is one reason it pulls 160 ma or so on RX). Dave Fifield  
> >optimized the NC-20 for RX performance (vs. current drain) and it is

> >speced at a nominal MDS of -135 dBm, the same number in the K2 manual.  
> >  
> >Phil  
> My nc-20 is a good receiver, but not any better than my sierra. And the  
> sierra has a variable crystal filter that makes it easier to copy weak  
> signals. And no matter what mods I have done to the VFO regulation of the  
> NC20, Its better, but most contacts can tell you are using a nc20 before  
> you tell them. I sure can. Sierra and K2 reports are always on what a great  
> CW note they have. To me what you send is as important as what you receive.

What does Dave Fifield say about that? Has the TX problem been widely reported, or is it unique to you (sounds like it is not unique).

Would you recommend I cancel my order? I don't need a radio with those problems.

Phil

Phil

-----  
Date: Mon, 06 Sep 1999 13:34:21 -0700  
From: Phil Wheeler <w7ox@mindspring.com>  
To: ab7ce@email.msn.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [49522] Re: 40m Radio - Which one?  
Message-ID: <37D4254D.29E484AF@mindspring.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Roy,

Forgot to ask: Do you have the NC-20 or the RH NC-20 (club vs. commercial version)? It may make a difference.

Phil

-----  
Date: Tue, 7 Sep 1999 06:47:06 +1000  
From: Daniel Bartlett <ausham@rocknet.net.au>  
To: "'homebrew@qth.net'" <homebrew@qth.net>, "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>  
Subject: [49523] XTAL Checker Schematic Now on Web  
Message-ID: <01BEF8FC.CD5688C0@rocknet>  
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: quoted-printable

G'day All,

For those of you who were waiting for my XTAL checker schematic to be published, you can now find it on the web, in the homebrew section of my page. (Just follow the link that says "For my new homebrew section etc etc")

Dan

73 es 72 de Daniel Bartlett, VK4HDB=20  
<http://www.qsl.net/vk4hdb/index.htm>  
ausham@rocknet.net.au  
1 Goodson Rd, Bouldercombe, Queensland 4702, AUSTRALIA  
+61 07 4934 0389=20  
QRP-L #2002

-----  
Date: Mon, 6 Sep 1999 17:19:35 -0400 (EDT)  
From: Joel Malman <malman@world.std.com>  
To: qrp-l@Lehigh.EDU  
Cc: k1qm@world.std.com  
Subject: [49524] Antenna Q: Ground mounting  
Message-ID: <199909062119.RAA11557@world.std.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit

Folks,

Not really QRP, but I have a question about ground mounting a GAP antenna. If you ever ground mounted a 25 foot vertical antenna...

... did you use one of those "tubes" and instant concrete?

Did it hold? Is it strong enough to support and 8-10 foot steel pipe? How much concrete did you need? Is a 3-4 foot tube big enough? Did you do the work yourself?

Recommendations?

Horror stories?

FYI: The GAP does not use guy wires and the "counterpoise" is build-in.

So the only support the antenna gets is from the ground mounted steel pipe.

Even though not QRP, I suspect a lot of readers might be interested.

--

/joel K1QM Concord, MA  
QRP-L 337, QRP-ARCI 9305

-----  
Date: Mon, 6 Sep 1999 17:36:44 -0400  
From: "Ed Tanton" <n4xy@att.net>  
To: <kory@avatar.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49525] RE: Organizing components  
Message-ID: <NBBBJDEEIFDDANGEGHLBOEELGNAA.n4xy@att.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Kory... I used the following method for my Elecraft K2 kit:

- 1) Buy a piece of white poster cardboard, place it on your workspace, and assemble your tools, light, etc. on the periphery of it;
- 2) Lay out the pieces of your kit. Put the cabinetry, and other large, individual components along the edges around the poster board. Save a specific space for your assembly manual. I put mine off to my left-within range to simply lean over and read it.
- 3) Find a shallow bowl, with edge-lips... something like the top of a bowl. Use this for your screws, and other small "losables".
- 4) In a column on my left, front-to-back, lowest-to-highest, I distributed my resistors. Write the values on the poster board.
- 5) In an arc, left-to-right, lowest-to-highest, lay out the capacitors, and write their values (104, 10uf, whatever.)
- 6) On my lower right, I put all the toroids. I laid them out by core size... so T-37 > T-44 > T-50 left-to-right. The cores I stacked front-to-back in columns. Just above them goes any other ferrites. Write the core types just below them.
- 7) If the cores are in the lower right of the work surface, put the semiconductors in the upper right. Label them as necessary.

Most poster board is NOT static prone. You can use the pink or metallic bags that come with the kit to rest assembled boards on... but there's usually no reason not to just put 'em back IN the bag, and set it aside 'til needed.

Two or three assembly notes: a) I save all the plastic caps from cans and Chow Mein Noodles, and the like. They make terrific epoxy mixing surfaces. You'd be amazed how many you can accumulate in a short time. Mixing epoxy on paper allows "stuff" to be absorbed, and I figure it couldn't improve the epoxy to lose part of the mix. 2) I also save the caps to large Jif Chunky Peanut butter. About 4 inches around, and one inch high, they make great parts containers to adjunct the above.

That pretty well does it. Everything is easily available. Everything is identified. And if need be, you can easily make notes right there on the work surface. The K2 was the 1st time I used all of this at one time. I have always done this kind of thing in a more haphazard manner, and the difference has been terrific.

I hope you find this useful.

72 / 73 Ed N4XY Elecraft K2 sn: 000057

Webpage: <http://www.qsl.net/n4xy/>

-----  
Ed Tanton N4XY EMAIL: n4xy@arrl.net  
189 Pioneer Trail  
Marietta, GA 30068-3466 TEL: (770) 971-0436

-----  
INTERESTS: \*CW (99.5%) \*QRP (QRP-L# 758)  
\*BoatAnchors \*Test Equipment \*Photography  
-----

"Begin at the beginning... and go on until you come  
to the end: then stop."

The White Rabbit, from "Alice In Wonderland"  
-----

-----  
Date: Mon, 06 Sep 1999 17:46:19 -0400  
From: S LYON <sslyon@worldnet.att.net>  
To: qrp chat <qrp-l@Lehigh.EDU>  
Subject: [49526] 20M EDZ / LAZY-H up and running  
Message-ID: <37D4362A.FBA66CD4@worldnet.att.net>  
MIME-Version: 1.0



Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Down in the "spider-hatchery" this a.m. and changed out the keyer cord. Took a DVM reading and found hi R intermittency. Same on Key without the cord. That narrowed down allright. So a lesson in weirdness... the nylon bushing on the DASH side was split, and filled with... chrome polish and other colorful stuff. Apparently, dry it's an insulator, wet its a yukkiconductor. Don't have repl. so clean, fill w/epoxy and re-assemble. All work FB now. Don't feel too bad about the mountain experience now... except that it happened.

Discretion being the better part of somethingorother I built jet another of L.B.'s marvels this morning and hung it in my clandestine lot across town. (Left the first one up on the mountain) It's about 200' above the Hudson with a clear shot west. (yesss!) O.K. -so it's only at 16' to the low EDZ, but it's on a good down-hill slope west. 3rd contact was EA8 with a 4-4-9! not bad. 20m & 40m both load like dreams w/the new Z-match -even tho I forgot the ground! Joe -if you're reading, that Rainbow bridge thingie is a marvel.

Good reports all around so I'll take some more pain killers and a nap before the "MOTHER OF ALL SPRINTS". Yea... I'm an adult... I can do that.

72  
=s=  
--

'Seab' Lyon - AA1MY  
Beacon NY USA FN-31  
QRP-L 574 ARCI 9253

-----  
Date: Mon, 6 Sep 1999 15:07:26 -0700  
From: "Dave Fifield" <fifield@pacbell.net>  
To: <w7ox@mindspring.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [49527] Re: 40m Radio - Which one?  
Message-ID: <006901bef8b4\$345c0480\$0100a8c0@pacbell.net>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Phil,

Since you asked:

The Red Hot Radio NC20 has no transmission problems - far from it. In fact, the RH NC20 has the cleanest transmit output of all QRP kits currently available. No one with a Red Hot Radio version has reported any whoop or chirp, indeed, all the rigs I have tested have keying/TX notes that sound just like my TS-950SDX - perfect.

The NorCal QRP club kit (the original roll-out) did have some "rogue" regulators that resulted in a little transmit "whoop". Unless Roy purchased a Red Hot NC20 from someone else second hand, it's my guess he has the club kit with this problem. I haven't sold him a Red Hot NC20.

As a courtesy to users, I have replaced the regulator of anyone who has taken the time to ask for one and send me the postage (33cents) - Roy, AB7CE, is not one of those people, and I guess he still has problems with his. Maybe Roy's rig has a problem with the MPF102 FET in the RIT circuit in addition to the 8V regulator? Who knows?

I will offer this - I will personally fix Roy's rig so that no one can "tell it's an NC20 before you tell them" if he cares to send it to me.

Do due diligence - check the QRP-L archives yourself - count how many Red Hot Radio NC20 problems you see. Do what Wayne Burdick suggests - ask someone else and compare apples to apples. Ask any owner of a Red Hot Radio product if they are happy with their rig.

72, Dave Fifield, AD6A, NorCal Zombie #5  
<http://www.redhotradio.com>

>  
> What does Dave Fifield say about that? Has the TX problem been widely  
> reported, or is it unique to you (sounds like it is not unique).  
>  
> Would you recommend I cancel my order? I don't need a radio with those  
> problems.  
>  
> Phil

-----  
Date: 6 Sep 99 18:28:50 EDT  
From: Roy Lincoln <wa4dou@usa.net>  
To: malman@world.std.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [49528] Re: [Antenna Q: Ground mounting]  
Message-ID: <19990906222850.10731.qmail@nw176.netaddress.usa.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII

Content-Transfer-Encoding: quoted-printable

Hi Joel,

I have been a "transient" in this life up to recent years. I have used several ground mounted verticals including a 42 ft. high 5/8th wave on 20=

meters. I have never had any trouble mounting them with anything more sophisticated than a 5 ft. section of 1-1/4" TV mast driven into the grou=

nd about 3 -3-1/2 ft.

Later i would just jack them out of the ground with a automobile bumper j=

ack.  
73 Roy Lincoln WA4DOU

-----=

- =

=

=

Joel Mal=

man

<malman@world.std.com> wrote:

Folks,

Not really QRP, but I have a question about ground mounting a GAP antenna=

=2E  
If you ever ground mounted a 25 foot vertical antenna...

... did you use one of those "tubes" and instant concrete?

Did it hold? Is it strong enough to support and 8-10 foot steel pipe?

How much concrete did you need? Is a 3-4 foot tube big enough? Did you do=

the work yourself?

Recommendations?

Horror stories?

FYI: The GAP does not use guy wires and the "counterpoise" is build-in.

So the only support the antenna gets is from the ground mounted steel pip=

e.

Even though not QRP, I suspect a lot of readers might be interested.

-- =

/joel K1QM Concord, MA  
QRP-L 337, QRP-ARCI 9305

-----  
Get free email and a permanent address at <http://www.netaddress.com/?N=3D=1>

-----  
Date: Mon, 6 Sep 1999 15:39:47 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-l@lehigh.edu>  
Subject: [49529] ZM-2 Question  
Message-ID: <000901bef8b8\$b953cb60\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I finished building my ZM-2 yesterday. What a great ATU! That SWR indicators makes it very nice!

I do have two questions for the technical gurus:

1. When I switch the ATU into Tune mode and tune till the LED goes out. I switch back to operate and I get a SWR of 1:1 (usually). However, when I key the transmitter in Operate mode, the LED goes on. Is this normal? I wasn't sure why it should happen.
2. When I'm using an unbalance (coax) antenna, I need to flip the GND switch to the GND position. Can someone explain why? It seems to me I should not have to do this (although the instruction tells me I should!).

Thanks & 73,  
Kory  
AC6RN

-----  
Date: Mon, 6 Sep 1999 15:42:13 -0700  
From: "Kory Hamzeh" <kory@avatar.com>  
To: <qrp-l@lehigh.edu>  
Subject: [49530] I have a ZM-1 kit to give away.  
Message-ID: <000a01bef8b9\$0ff36480\$14ce21c7@tomcat.avatar.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I have an Emtech ZM-1 kit that I bought many years ago but never built. I still have all the parts and things. I would like to give it away, but to a good cause. If you tell me a good (true) story why you should have it, its yours. Remember, I can't verify your story, so I'm going to assume honesty here.

The ZM-1 is identical to the ZM-2, but without the SWR indicator.

Thanks & 73,  
Kory  
AC6RN

-----  
Date: Mon, 06 Sep 1999 22:43:46 GMT  
From: mwattcpa@earthlink.net (Marty Watt)  
To: qrp-1@lehigh.edu  
Subject: [49531] Wanted: Kent paddles  
Message-ID: <37d4430c.155945160@mail.earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: quoted-printable

If anyone has Kent paddles (not the single lever), prefer the "England" = logo rather than the Alpha-Delta marketed, that they'd like to sell or trade, please contact me off-list.

Thanks!

--  
Marty, N5NW

-----=  
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Memphis, Tennessee =  
<http://home.earthlink.net/~mwattcpa>  
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Date: Mon, 6 Sep 1999 19:03:55 -0500  
From: "George Heron" <n2apb@erols.com>

To: <malman@world.std.com>, "QRP-L" <qrp-l@Lehigh.EDU>  
Subject: [49532] Re: Antenna Q: Ground mounting  
Message-ID: <005901bef8c4\$9f9e9040\$6899accf@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've had a Gap for years now, had it clamped to 10 foot water pipe set in concrete. Held like gang busters, even with no guys to the antenna (like some people mentioned). Did the base work myself ... just one bag of Sacrete, a 4 foot hole, cross anchors (three 4 foot lengths of angle iron at 45-degrees), and some rocks at the base of the hole to save myself from needing too much concrete. Fabulous results.

I recently moved away from my NNJ town and tried to get the pipe out. No good. Hack sawed off the pipe, but couldn't even get the concrete out, even after digging around the hole. So I chipped it down some with a pick axe and covered it over with grassy sod.

Now MY question ... now that I'm into my new QTH here in Maryland, I need to keep a low profile in the development and I want to mount my Gap right on the ground. That is, I want to place the ground ring right on the grass with the antenna on a very short stub in the ground. (I'll probably use the same base construction I did in NJ, but only with about 12" sticking up for the antenna clamps.) Wonder if anyone has tried going as low as this?

73, George N2APB  
n2apb@amsat.org in Baltimore, MD

> ... did you use one of those "tubes" and instant concrete?  
>  
>Did it hold? Is it strong enough to support and 8-10 foot steel pipe?  
>How much concrete did you need? Is a 3-4 foot tube big enough? Did you do  
>the work yourself?

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End of QRP-L Digest 1571

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